

CARELLA, BYRNE, BAUER & GILFILLAN,  
CECCHI, STEWART & USTEIN  
6 Becker Farm Road  
Roseland, New Jersey 07068  
(201) 994-1700  
(201) 994-1744 (FAX)

OPERATOR: 125

**TIME COMPLETED:**

EXT. NO. 525

OUR FILE NO.: 325355-54

DATE: March 14 1996

NAME \_\_\_\_\_

**FIRM**

**FAX NO.**

Bol-Benson

HGS

301, 309-8512

A set of four horizontal lines for handwriting practice, consisting of a solid top line, a dashed midline, and a solid bottom line.

Four horizontal lines spaced evenly apart, intended for handwriting practice.

(	)	
(	)	
(	)	
(	)	

FROM: C. Hause

Total Pages Including Transmittal Sheet 7

COMMENTS: Bob - this is the paper for AIM-I (previously "Follicular") - there are lots of questions for Steve Rubin still, incl. are all figures available? see last 2 pages of transmission - can file ~~trans~~ <sup>trans</sup> from me: same for TGF  $\beta$  & E, i.e. total/or ~~total~~ <sup>total</sup> ~~trans~~ <sup>trans</sup>

IF YOU HAVE ANY PROBLEMS WITH THIS TRANSMISSION, OR DO NOT RECEIVE THE NUMBER  
PAGES NOTED, PLEASE CONTACT THE FAX OPERATOR AT (201) 994-1700 (EXT. 211) *143*

CONFIDENTIALITY NOTE: The documents accompanying this teletype transmission contain information the law firm of Cirella, Byrne, Bain, Gilfillan, Cacci, Stewart & Olstein, which is confidential and/or privileged. The information contained in this facsimile is intended only for the use of the individual named and others who have been specifically authorized to receive it. If the one receiving it is not the intended recipient you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this teletype in error, please notify us by telephone immediately so that we can return the return of the original documents to us at once. Thank you.

The original of this document will be sent by:

Ruben EXHIBIT #51

CARELLA, BYRNE, BAUER, GILFILLAN,  
CECCHI, STEWART & OLSTEIN  
6 Becker Farm Road  
Roseland, New Jersey 07068  
(201) 994-1700  
(201) 994-1744 (FAX)

OPERATOR: C-2

TIME COMPLETED: \_\_\_\_\_

EXT. NO.: 525

OUR FILE NO.: 325888-5

DATE: March 14 1996

NAME	FIRM	FAX NO.
<u>Bol-Benson</u>	<u>HGS</u>	<u>301,309-8512</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

FROM: C. Hause

Total Pages Including Transmittal Sheet: 7

COMMENTS: Get this in the notes for AIN-I (or similar)  
"Fax License") - There are lot 2 questions for Steve Rubin still incl.  
re all 7 figures available? See last 2 pages of transmittal.  
can file 144 hours? same for TEF S&E, i.e. today or  
tomorrow.

IF YOU HAVE ANY PROBLEMS WITH THIS TRANSMISSION, OR DO NOT RECEIVE THE NUMBER OF PAGES NOTED, PLEASE CONTACT THE FAX OPERATOR AT (201) 994-1700 (EXT. 211) ok?

CONFIDENTIALITY NOTE: The documents accompanying this teletype transmission contain information the law firm of Carella, Byrne, Bauer, Gilfillan, Cecchi, Stewart & Olstein, which is confidential and/or privileged. The information contained in this facsimile is intended only for the use of the individual named and others who have been specifically authorized to receive it. If the one receiving it is not the intended recipient you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this teletype in error, please notify us by telephone immediately so that we can arrange the return of the original documents to us at once. Thank you.

The original of this document will be sent by:

Ordinary Mail  
 Messenger

Overnight Mail  
 This will be the only form of delivery of this Document

C.H.

Ruben EXHIBIT 2051  
Ruben v. Wiley et al.  
Interference No. 105,077  
RX 2051



## \*\*\* TR/MISSION REPO! \*\*\*

MAR-14-96 09:26 10:2819941744

CARELLA BYRNE

JOB NUMBER

127

INFORMATION CODE

OK

TELEPHONE NUMBER 525-325800-549-10:3098512

NAME (ID NUMBER) 3098504

START TIME MAR-14-96 09:24

PAGES TRANSMITTED 007 TRANSMISSION MODE EMMR

RESOLUTION STD REDIALING TIMES 00

SECURITY OFF MAILBOX OFF

MACHINE ENGAGED 01:58

THIS TRANSMISSION IS COMPLETED.

LAST SUCCESSFUL PAGE 007

CARELLA, BYRNE, BAIN, GILFILLAN,  
 COCCIA, STEWART & OLSTEIN  
 6 Becker Farm Road  
 Roseland, New Jersey 07068  
 (201) 994-1700  
 (201) 994-1744 (FAX)

DATE: March 14 1996

NAME

Bob Benson

FIRM

HGS

OPERATOR: P

TIME COMPLETED:

EXT. NO.: 525OUR FILE NO.: 325800-504

FAX NO.

(301) 309-8572

FROM: S. HerreraTotal Page Including Transmission Sheet 71

COMMENTS: Bob, this is the setup for ATM-I (previously  
 "Fidelity") - there are lots of questions for Steve Rilin still incl.  
 re add'l figures available? See last 2 pages in Franklin -  
 can file today/Hanover; same for TIF 5 & 6, is taken for  
 commercial.

IF YOU HAVE ANY PROBLEMS WITH THIS TRANSMISSION, OR DO NOT RECEIVE THE NUMBER OF PAGES NOTED, PLEASE CONTACT THE FAX OPERATOR AT (201) 994-1700 (EXT. 211) OK

CONFIDENTIALITY NOTE: The documents accompanying this teletype transmission contain information from the law firm of Carella, Byrne, Bain, Gilfillan, Cooccia, Stewart & Olstein, which is confidential and/or legally privileged. The information contained in this facsimile is intended only for the use of the individual named above and others who have been specifically authorized to receive it. If the one receiving it is not the intended recipient, you are hereby advised that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this teletype in error, please notify us by telephone immediately so that we can arrange for the return of the original documents to us at once. Thank you.

The original of this document will be sent by:

Ordinary Mail  
 Messenger

Overnight Mail  
 This will be the only form of delivery of this document

GH

Figure 1

## Nucleotide and Amino Acid Sequence of ATM-I

-51 GGCAGGAGGCGCTTGCTGGCTGACTTACAGGAGTCAGACTCTGACAGGTTCTATGGCTATG  
 -16 CGTGTCTGCCAACGGACCEGACTGAATGTCGTCACTGAGACTGCTCAAGTACCEGATAC  
 M A H 3

9 ATGGAGGTCCAGGGGGGACCCAGCTGGGACACACCTGGTGTCTGATCTGATCTTCACA  
 4 TACCTCCAGGTCCCCCTGGTCTGGACCECTGTCTGACGACGACTAGCACTAGAAGTGT  
 M E Y Q G G P S L G Q T C Y L I V I F T 23

69 GGGTCTGCACTCTCTGTTGGCTGTAACCTACGTGTACTCTACCAACGAGCTGAAG  
 24 CACAGGAGCTCAGAGAGACACCCGACATTGAAATGCACATGAAATGGTGTCTGACTTC  
 V L L Q S L C Y A V T T Y Y F T N E L K 43

129 CACATGCAAGAACAGTACTCCAAAAGTGGCATTCGTTCTTAAAGAACAGATGACAGT  
 44 GTCTACGTCTGTTCTGAGGTCTTACCGGTACACAAACAAAGATCTCTACTGTC  
 Q M Q D K Y S K S G I A C F L K E D O S 63

189 TATTGGGACCCCATGACGAAGAGAGTATGAAACGCCCCCTGGCTGGCAAGTCAAGTGGCA  
 64 ATAACCTGGGGTACTGCTCTCTCATACTCTGCGGGGACGACCGTCACTTCACCGT  
 Y N D P N D E E S M N S P C R Q V K \* Q 83

249 CTCCTGAGCTGGTAGAAAGATCATCTGAGACCTCTGAGGAACCATCTTACAGT  
 84 GAGGAGCTGAGGAAATCTTCTACTAAACCTCTGGAGACTCTTGGTAAAGATGTC  
 L R Q L V R K M I L R T S E E T I S T Y 103

309 CAAACAAAGCAACAAATACTCTCCCTAGTGGAGAAAGAGGTCTGAGAGTAGCA  
 184 GTCCTTCGTTGTTATAAAGAGGGGATCACTCTCTCTCAGGAGCTCTCATGCT  
 Q E K Q Q N I S P L Y R E R G P Q R V A 123

363 GTCACATAACTGGGACCAAGGGAAAGGAAACACATCTCTCTCAAACCTCAAAGAAT  
 124 CGAGTCTTGTACCTGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT  
 A H I T G T R G R S H T L S S P H S K N 143

429 GAAAGGCTCTGGGGCGAAAATAACTCTGGAAATCATGAGGAGTGGGATTCATTC  
 144 CTCTCTGGAGACCCGGCGTTTATCTGAGGACCTTAGTACTGTTCTCACCCGTAAGTAAG  
 E K A L G R K I N S H E S S R S G H S F 163

CTGAGCACTTGCACTTGAGGAATGGTGAACCTGGTCACTCATGAAAAGGGTTTACTAC

Figure 1 (con'd).

489 GACTCGTGAACGTGAACTCTTACCACTTGACCACTAGGTACT...TCCAAATGATG  
 549 L S K L H L R N G E L V I H E K G F Y Y  
 594 ATCATTCCAAACATACTCTCGATTCAAGGAGAAATAAAGAAAACACAAAGAACGAC  
 643 TAGATAAGGTCTGTATGAAAGCTAAAGTCTCTCTTATTTCTTGTGTTCTGCT  
 688 I Y S Q T Y F R F Q E E I K E N T K N D  
 733  
 284 AAACAAATGGTCCAAATATACTTACAAATACAAAGTTATCTGACCCCTATATGGTGTGATG  
 629 TTTGTTACCGAGTTATATAATGTCTTATGTTCTCAATAGGACTGGGATATAACAACTAC  
 668 284 K Q H V Q Y I Y K Y T S Y P O P I L L M  
 713  
 223 AAAGTGTAGAAATAGTTGTTGTTAAAGATGCAGAATATGGACTCTATTCATCTAT  
 669 TTTCAAGATCTTATCAACAAACCGAGTTCTACGTTTATACCTGAGATAAGGTTAGATA  
 723 223 K S A R N S C W S K D A E Y G L Y S I Y  
 752  
 223 CAAAGGGAAATTTGAGCTTAAGGAAATGACAGAACTTCTGTTCTGAAATGAG  
 729 GTTCCCCCTTATAAATCTGAATTCTTTTACTGCTTAAACACAGACATTGTTTACTC  
 788 223 Q G G I F E L K E N D R I F V S V T N E  
 253  
 223 CACTGTATGAGCATGACCATGAGCCAGTTCTGGGGCTTTAGTTGCTTAATG  
 789 GTCAGACTATCTGACCTGGTACTTCGGTCAAAAAGCCCCGAAAAATCAACCGATTGAC  
 253 223 H L I D K D H E A S F F G A F L V G  
 223  
 223  
 849 ACCTGGAAAGAAGAACAAATAACCTCAAGTGACTATTCACTTCAAGGATGATAACATA  
 908 TGGACCTTCTTCTGGTATTTGGAGTTCACTGATAAGTCAAAGTCTACTATGTCAT  
 223  
 909 TCAAGATTTCAAAATCTGACCAAAACAAACAGAAAACAGAAAACAAAAAC  
 968 ACTCTACAAAGTTAGACTGGTTTGTCTGTTGCTTGTCTTGTCTTGTCTTGT  
 223  
 963 CTTATGCAATCTGAGTAGGAGGACACAAACAAACAAACACACTGTTCTG  
 1028 GAGATAGCTAGACTCATCTCGTCGGTGTGGTTTGGATGTTGTTGACAGAC  
 223  
 1029 AAAGTGACTCACTTATCCAAAGAAATGAAATGTTGTTGAAAGATCTCAGGACTCTACCT  
 1088 TCTACTGAGTGAAATGGGTTCTTACTTAAAGACTTCTAGAAAGTCCTGAGATGGA  
 223  
 1089 CATACTGTTGCTAGGAGAAATCTAGAGACTGTCAGCTTCAACATTAAATGCAATGG  
 1148 GTATAGTCAAACGATGTCCTAGATCTCTGACAGTCGAAGGTTGTAATTACGTTAC

Figure 1 (con'd)

1249 TAAACATCTCTGCTTTATAATCTACTCTTGTAAAGACTGTAGAAGAAAGGGCAACAA  
AATTGTAGAAGACAGAAATATTAGATGAGGAACATTCTGACATCTCTTTCGGCTTGT  
1288

1289 TCCATCTCTCAAGTAGTGTATCACAGTAGTACCCCTCAGGTTCCCTTAAGGGACAACATC  
AGTAGAGAGTTCACTCACATAGTAGTCATCATCGGAGGTCCAAAGGAATTCCTGTGTAG  
1288

1269 CTTAAGTCAAAAGAGAGAAGAGGCAACACTAAAGATCCAGGTTGCCGGTGCAGTGG  
GAATTCACTTTCTCTCTCTCGTGGTGTATTTCTAGCGTCAAACGGACCAACGTCAACCG  
1328

1329 TCACACCTGTAATCCCACATTTGGGAACCCAAAGGTGGTAGATCAGGAGATCAAGAGA  
AGTGTGGACATTAGGTTGTAAACCCCTGGGTTCCACCCATCTAGTGTCTAGTTCT  
1388

1389 TCAAGACCATAGTACCAACATAGTCAAACCCATCTCTACTGAAAGTGCAAAATTAGC  
AGTTCGGTATCACTGTGTATCACTTTGGGTAGAGATCACTTCACGGTTTAATCG  
1448

1449 TGGGTGTGGCACATGCTGTAGTCCCAGCTACTTGAGAGGTGAGGCAAGGAGAATCG  
ACCCACACACCGTGTACGGACATCAGGUTGATGAACTCTCCACTCCGTCTCTTAGC  
1508

1509 TTGAACCCGGGAGGCAGAGGTGCACTGTGGTAGATCATGCCACTACACTCCAGGCTG  
AAACTTGGGCCCTCGTCTCAACGTACACCACTCTAGTACGGTGTGAGGGTGGAC  
1568

1569 GCGACAGAGGGAGACTTGGTTTC  
CGCTGTCTCGCTCTGAACCAAG  
1591

Figure 2

### Alignment of AIM-I to Human Fas Ligand (Similarity = 48.594 % Identity = 22.892 %)

4 MEYQQGPSSLQQTCLIVEFTVL.....LQSLCVAVTTV 36  
 :: ::::::::::::::: | : | ... .:...  
 15 vdssassspwappgtvlcpctsvprppqqrppppppppppppppppp 64  
 37 YFTNELLQHQDQKYSXSGTACFLKEDGOSTYCPHDEESANSPCQVNMQLRQ 86  
 :: |...: . . . .: | : | . . . .: | : | . . . .: | . . .  
 65 plg..lpplkkrgnhsrglclva..ffavlvlgiglgafal.fhlqk 109  
 87 LVRQHDLRTSEETISTYQEKKQXNISPLVRLERGPQRVAAHETGTRGRSNTL 136  
 : .  
 110 elaelrestsqmantasslekqiqhpspppekkelrkvahlt...gksnsr 156  
 137 SSPNSKNEKALGRICNSWESSRSRSGHSFLSNLHLRNGELVCHEGFYYEYS 186  
 | | .  
 157 simplewedy.....givl:sgvkykkkggivinegglyfys 193  
 187 QTYFRFQEEIKENTIONDKQMVQYZTKRTS.YPDPILLMKSARNSCNSKDJ 235  
 .  
 194 kvyfr.....gqscnniplshkywrrnkskypqdfivmegicamsycttgc 237  
 236 EYGLYSIYQQGIFELKENDRIFVSVTNEHLCDMDHEASFFGAFLV 280  
 :: | | :: | .  
 238 amar.ssylgavfnltsadhlvvnvselsivnfeesqtffglyk 281

Figure 1 (con'd)

1149 TAAACATCTCTCTTATAATCTACTCTTAAAGACTGAGAAGAAAGGGCAACAG  
AATGTAGAAGACAGAAATATTAGATGAGGAACATTTCTGACATCTCTTCGCGTTGTT 1208

1209 TCCATCTCAAGTAGTGTATCAGTAGTACGCTCCAGGTTCTTAAGGGACAAACATC  
AGTAGAGAGTCTACACATAGTGTACATCATGGAGGTCCAAGGAATCCCTGTTGAG 1268

1269 CAAAGTCAAAGAGAGAAGAGGCAACCAAAAGATGGCAGTTTGCCTGGTGCAGTGGC  
GAATTAGTCTTCTCTCTCTCTGGTGTATCTAGGTCAAACGGACCACTCACCG 1328

1329 TCACACCTGAAATCCCACATTTGGAAACCAAGGTGGTAGATCAGGAGATCAAGAGA  
AGTGTGGACATTAGGTTGTAAACCCCTGGGTCCACCCATCTAGTGTCTAGTCTCT 1388

1389 TCAAGACCATAGTGACCAACATAGTAAACCCATCTCTACTGAAAGTGCAAAATTAGC  
AGTCTGGTATCACTGGTTGTATCACTTGGGTAGAGATGACTTTCACGTTTAAATCG 1448

1449 TGGGTGTGGCACATGGCTGTAQCCAGCTACTTGAGAGGTGAGGCAGGAGAATCG  
ACCCACACAAACCGTGTACGGACATCAGGGTGGATGACTCTCCGACTCCGTCTCTTAGC 1508

1509 TTGAACCCGGGAGGCAGAGGTGGACTGTGGTAGAGATCATGCCACTACACTCCAGCTG  
AAACTTGGGCCCTCGCTCTCAACGTACACCACTCTAGTACGGTGTGAGGTGGAC 1568

1569 GCGACAGAGGGAGACTTGTTTC  
CGCTCTCGCTCTGAACCAAG 1591

1	DE	alpha
2	DE	beta
3	DE	delta
4	DE	epsilon
5	DE	zeta
6	DE	eta
7	DE	theta
8	DE	tau
9	DE	chi
10	DE	psi
11	DE	omega
12	DE	nu
13	DE	xi
14	DE	phi
15	DE	psi
16	DE	chi
17	DE	psi
18	DE	omega
19	DE	nu
20	DE	xi
21	DE	phi
22	DE	psi
23	DE	chi
24	DE	psi
25	DE	omega
26	DE	nu
27	DE	xi
28	DE	phi
29	DE	psi
30	DE	chi
31	DE	psi
32	DE	omega
33	DE	nu
34	DE	xi
35	DE	phi
36	DE	psi
37	DE	chi
38	DE	psi
39	DE	omega
40	DE	nu
41	DE	xi
42	DE	phi
43	DE	psi
44	DE	chi
45	DE	psi
46	DE	omega
47	DE	nu
48	DE	xi
49	DE	phi
50	DE	psi
51	DE	chi
52	DE	psi
53	DE	omega
54	DE	nu
55	DE	xi
56	DE	phi
57	DE	psi
58	DE	chi
59	DE	psi
60	DE	omega
61	DE	nu
62	DE	xi
63	DE	phi
64	DE	psi
65	DE	chi
66	DE	psi
67	DE	omega
68	DE	nu
69	DE	xi
70	DE	phi
71	DE	psi
72	DE	chi
73	DE	psi
74	DE	omega
75	DE	nu
76	DE	xi
77	DE	phi
78	DE	psi
79	DE	chi
80	DE	psi
81	DE	omega
82	DE	nu
83	DE	xi
84	DE	phi
85	DE	psi
86	DE	chi
87	DE	psi
88	DE	omega
89	DE	nu
90	DE	xi
91	DE	phi
92	DE	psi
93	DE	chi
94	DE	psi
95	DE	omega
96	DE	nu
97	DE	xi
98	DE	phi
99	DE	psi
100	DE	chi
101	DE	psi
102	DE	omega
103	DE	nu
104	DE	xi
105	DE	phi
106	DE	psi
107	DE	chi
108	DE	psi
109	DE	omega
110	DE	nu
111	DE	xi
112	DE	phi
113	DE	psi
114	DE	chi
115	DE	psi
116	DE	omega
117	DE	nu
118	DE	xi
119	DE	phi
120	DE	psi
121	DE	chi
122	DE	psi
123	DE	omega
124	DE	nu
125	DE	xi
126	DE	phi
127	DE	psi
128	DE	chi
129	DE	psi
130	DE	omega
131	DE	nu
132	DE	xi
133	DE	phi
134	DE	psi
135	DE	chi
136	DE	psi
137	DE	omega
138	DE	nu
139	DE	xi
140	DE	phi
141	DE	psi
142	DE	chi
143	DE	psi
144	DE	omega
145	DE	nu
146	DE	xi
147	DE	phi
148	DE	psi
149	DE	chi
150	DE	psi
151	DE	omega
152	DE	nu
153	DE	xi
154	DE	phi
155	DE	psi
156	DE	chi
157	DE	psi
158	DE	omega
159	DE	nu
160	DE	xi
161	DE	phi
162	DE	psi
163	DE	chi
164	DE	psi
165	DE	omega
166	DE	nu
167	DE	xi
168	DE	phi
169	DE	psi
170	DE	chi
171	DE	psi
172	DE	omega
173	DE	nu
174	DE	xi
175	DE	phi
176	DE	psi
177	DE	chi
178	DE	psi
179	DE	omega
180	DE	nu
181	DE	xi
182	DE	phi
183	DE	psi
184	DE	chi
185	DE	psi
186	DE	omega
187	DE	nu
188	DE	xi
189	DE	phi
190	DE	psi
191	DE	chi
192	DE	psi
193	DE	omega
194	DE	nu
195	DE	xi
196	DE	phi
197	DE	psi
198	DE	chi
199	DE	psi
200	DE	omega
201	DE	nu
202	DE	xi
203	DE	phi
204	DE	psi
205	DE	chi
206	DE	psi
207	DE	omega
208	DE	nu
209	DE	xi
210	DE	phi
211	DE	psi
212	DE	chi
213	DE	psi
214	DE	omega
215	DE	nu
216	DE	xi
217	DE	phi
218	DE	psi
219	DE	chi
220	DE	psi
221	DE	omega
222	DE	nu
223	DE	xi
224	DE	phi
225	DE	psi
226	DE	chi
227	DE	psi
228	DE	omega
229	DE	nu
230	DE	xi
231	DE	phi
232	DE	psi
233	DE	chi
234	DE	psi
235	DE	omega
236	DE	nu
237	DE	xi
238	DE	phi
239	DE	psi
240	DE	chi
241	DE	psi
242	DE	omega
243	DE	nu
244	DE	xi
245	DE	phi
246	DE	psi
247	DE	chi
248	DE	psi
249	DE	omega
250	DE	nu
251	DE	xi
252	DE	phi
253	DE	psi
254	DE	chi
255	DE	psi
256	DE	omega
257	DE	nu
258	DE	xi
259	DE	phi
260	DE	psi
261	DE	chi
262	DE	psi
263	DE	omega
264	DE	nu
265	DE	xi
266	DE	phi
267	DE	psi
268	DE	chi
269	DE	psi
270	DE	omega
271	DE	nu
272	DE	xi
273	DE	phi
274	DE	psi
275	DE	chi
276	DE	psi
277	DE	omega
278	DE	nu
279	DE	xi
280	DE	phi
281	DE	psi
282	DE	chi
283	DE	psi
284	DE	omega
285	DE	nu
286	DE	xi
287	DE	phi
288	DE	psi
289	DE	chi
290	DE	psi
291	DE	omega
292	DE	nu
293	DE	xi
294	DE	phi
295	DE	psi
296	DE	chi
297	DE	psi
298	DE	omega
299	DE	nu
300	DE	xi
301	DE	phi
302	DE	psi
303	DE	chi
304	DE	psi
305	DE	omega
306	DE	nu
307	DE	xi
308	DE	phi
309	DE	psi
310	DE	chi
311	DE	psi
312	DE	omega
313	DE	nu
314	DE	xi
315	DE	phi
316	DE	psi
317	DE	chi
318	DE	psi
319	DE	omega
320	DE	nu
321	DE	xi
322	DE	phi
323	DE	psi
324	DE	chi
325	DE	psi
326	DE	omega
327	DE	nu
328	DE	xi
329	DE	phi
330	DE	psi
331	DE	chi
332	DE	psi
333	DE	omega
334	DE	nu
335	DE	xi
336	DE	phi
337	DE	psi
338	DE	chi
339	DE	psi
340	DE	omega
341	DE	nu
342	DE	xi
343	DE	phi
344	DE	psi
345	DE	chi
346	DE	psi
347	DE	omega
348	DE	nu
349	DE	xi
350	DE	phi
351	DE	psi
352	DE	chi
353	DE	psi
354	DE	omega
355	DE	nu
356	DE	xi
357	DE	phi
358	DE	psi
359	DE	chi
360	DE	psi
361	DE	omega
362	DE	nu
363	DE	xi
364	DE	phi
365	DE	psi
366	DE	chi
367	DE	psi
368	DE	omega
369	DE	nu
370	DE	xi
371	DE	phi
372	DE	psi
373	DE	chi
374	DE	psi
375	DE	omega
376	DE	nu
377	DE	xi
378	DE	phi
379	DE	psi
380	DE	chi
381	DE	psi
382	DE	omega
383	DE	nu
384	DE	xi
385	DE	phi
386	DE	psi
387	DE	chi
388	DE	psi
389	DE	omega
390	DE	nu
391	DE	xi
392	DE	phi
393	DE	psi
394	DE	chi
395	DE	psi
396	DE	omega
397	DE	nu
398	DE	xi
399	DE	phi
400	DE	psi
401	DE	chi
402	DE	psi
403	DE	omega
404	DE	nu
405	DE	xi
406	DE	phi
407	DE	psi
408	DE	chi
409	DE	psi
410	DE	omega
411	DE	nu
412	DE	xi
413	DE	phi
414	DE	psi
415	DE	chi
416	DE	psi
417	DE	omega
418	DE	nu
419	DE	xi
420	DE	phi
421	DE	psi
422	DE	chi
423	DE	psi
424	DE	omega
425	DE	nu
426	DE	xi
427	DE	phi
428	DE	psi
429	DE	chi
430	DE	psi
431	DE	omega
432	DE	nu
433	DE	xi
434	DE	phi
435	DE	psi
436	DE	chi
437	DE	psi
438	DE	omega
439	DE	nu
440	DE	xi
441	DE	phi
442	DE	psi
443	DE	chi
444	DE	psi
445	DE	omega
446	DE	nu
447	DE	xi
448	DE	phi
449	DE	psi
450	DE	chi
451	DE	psi
452	DE	omega
453	DE	nu
454	DE	xi
455	DE	phi
456	DE	psi
457	DE	chi
458	DE	psi
459	DE	omega
460	DE	nu
461	DE	xi
462	DE	phi
463	DE	psi
464	DE	chi
465	DE	psi
466	DE	omega
467	DE	nu
468	DE	xi
469	DE	phi
470	DE	psi
471	DE	chi
472	DE	psi
473	DE	omega
474	DE	nu
475	DE	xi
476	DE	phi
477	DE	psi
478	DE	chi
479	DE	psi
480	DE	omega
481	DE	nu
482	DE	xi
483	DE	phi
484	DE	psi
485	DE	chi
486	DE	psi
487	DE	omega
488	DE	nu
489	DE	xi
490	DE	phi
491	DE	psi
492	DE	chi
493	DE	psi
494	DE	omega
495	DE	nu
496	DE	xi
497	DE	phi
498	DE	psi
499	DE	chi
500	DE	psi
501	DE	omega
502	DE	nu
503	DE	xi
504	DE	phi
505	DE	psi
506	DE	chi
507	DE	psi
508	DE	omega
509	DE	nu
510	DE	xi
511	DE</	

Decoration 11: Shade (with solid black) residues that match Deltapha exactly.

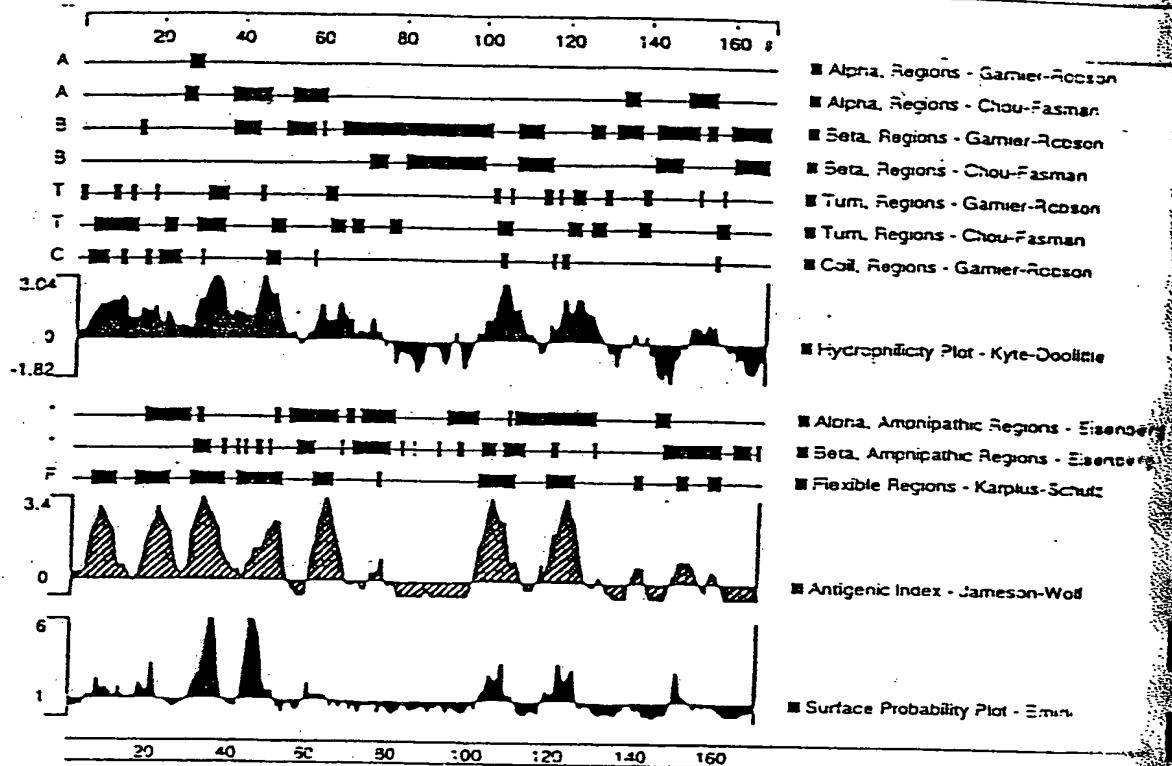
~~Stein~~

do you have such a Fig  
for A111-I (Fast ligand)?

if so please fax to me

— Thanks

Charlie



Steve

do you have either a  
Fig. (+ A M-T (Fab ligand))?

if so please fax to me

Thank  
Charlie

Alignment Report of United 1 Dual method with PAMCSO residue weight chart.  
Thursday, March 14, 1996 11:16:44 AM

Page 1

	10	20	30
1	ED A M E V Q G G P S	G Q I C V I E V I F T V I	ADM 1
2	M O C P H N Y P C D I G I F W V D S S A L S S S W A D S G I S S	FAS LIGAND U06948.pop	
3	M	-----	-----
4	-----	-----	-----
	40	50	60
26	Q Q S U C E V A U T T E V Y F T N E L K G M D K Y S X S I G I A	ADM 1	
31	P C P S I S H P R G	P C Q R R P P P P P P V I S I P L P	FAS LIGAND U06948.pop
32	-----	-----	-----
33	-----	-----	-----
34	-----	-----	-----
	70	80	90
56	C F U K E D S S T W D P N D Z E E S M I N S S C W Q I V K W Q I W R	ADM 1	
57	P I S Q O P I L P I L P I L T P L X K D O H T N I L W Q D Z V V	FAS LIGAND U06948.pop	
58	-----	-----	-----
59	-----	-----	-----
	100	110	120
86	C I C V R K H D I R T S E E C I S S T V Q E K C I G N I S P I L V I	ADM 1	
85	P I F V A V I V V S M I G I L G	P I F H I L O K X E D A S U G	FAS LIGAND U06948.pop
82	-----	-----	-----
81	-----	-----	-----
	130	140	150
116	E R S P O R V A A H E T G I T A G A S N C L S I S P I N S K I N S E	ADM 1	
114	E I F I Z - H G I S Z X V I S I S E Z Q I A N M I S I T P S I E K I E P I R	FAS LIGAND U06948.pop	
112	E I S I Z D S I C I S P I A Q A V I E S S I S K Y S I D	-----	
111	C L I I - C V I G I I T P S I A I A D T A I D S P I K H H L A S T L I D	-----	
	160	170	180
146	A L I G R X I N S	W E S S B I S C H S F L I S Y	ADM 1
143	S I V A H M T G N P H I S R S I P I E W B D T V G D I A L I - S I	FAS LIGAND U06948.pop	
88	P V A H I V V V A N P I O N E G Q	L I Q W I I R I B I A N A L I A I G	-----
60	-----	-----	-----
	190	200	210
167	I N U L A N G R I I V I B E X G I F T Y I Y S Q I E Y F R I F O I E E	ADM 1	
172	V I K V I K G O C V V I S E G L V I D Y S Q V I F P K G Q S C N	FAS LIGAND U06948.pop	
177	V I E I R D O N G I C V V I S E G L V I D Y S Q V I F P K G Q C I	-----	
92	Y S I L I S I N N S I L I S Y W T S C I I V Y S C V I V E S I C K A Y S	-----	
	220	230	240
157	K E N T K N O C K G I M I V I Q I Y K Y D S I Y P I C P I I I H I K S I	ADM 1	
202	N C P	N I R I K V W H R N I S I K Y P I E D I V I I M I E E	FAS LIGAND U06948.pop
146	-----	-----	-----
133	-----	-----	-----

HGS

Facsimile Cover Sheet

Human Genome Sciences, Inc.  
9620 Medical Center Drive, #300  
Rockville, MD 20850-3338  
(301) 309-8504 (301) 340-7159 Fax

DATE: 3-14-96  
TO: Charles Herron  
FAX #: 201-994-1744  
FROM: Steve Huben

COMMENTS:

Number of Pages (including cover): 4

The information contained in this facsimile message is privileged and confidential and is intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this fax is strictly prohibited. If you have received this fax in error, please immediately notify us by telephone and return the original message to us at the address above via the United States Postal Service.

SENT BY:

3-14-96 : 3:38PM :

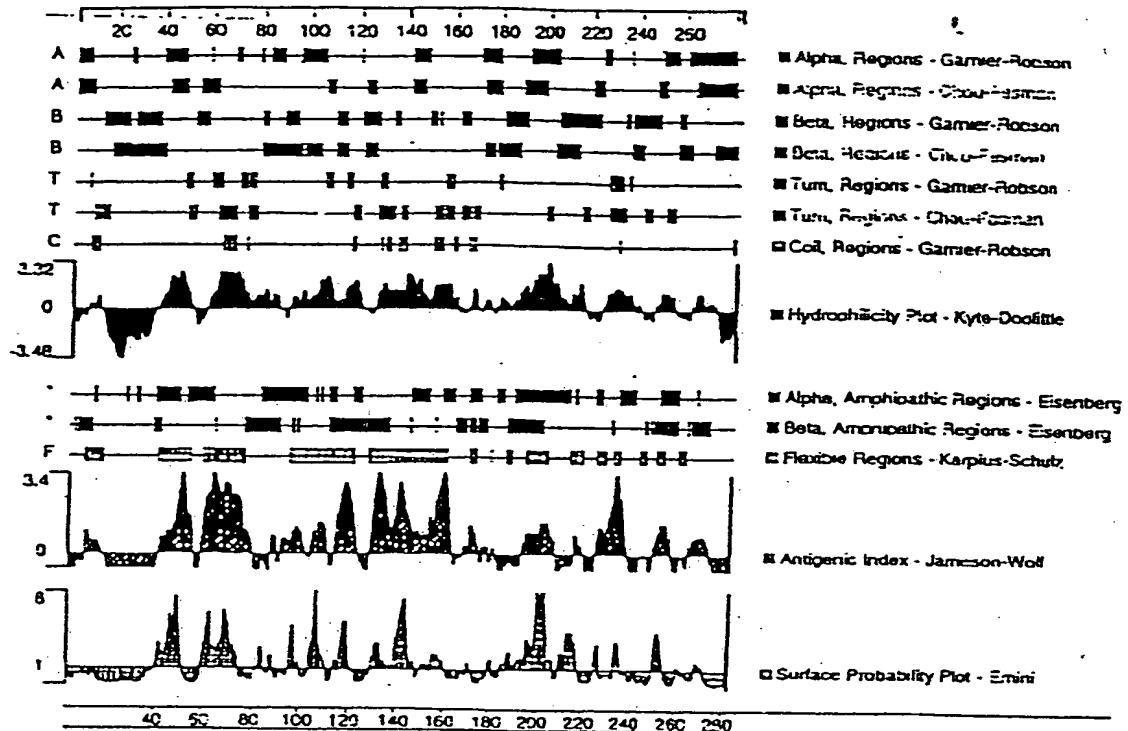
PLT

20100417110404

Page 1

Alignment Report of Unlited, using Clustal method with PAM250 residue weight table.  
Thursday, March 14, 1996 11:18 AM

	10	20	30	
1	M M M E V Q G G I P I S I	G Q I C V D I V E S T V I	A M X 1	
1	M O Q P M N Y P C I P I Q I P W V D S S A M	S S W A P P I G S V E I	F A S L I G A N D	U06948.pep
1	M			cua.pep
1	M			cub.pep
	40	50	60	
26	Q I O S I C I V A V T Y V Y P T N E L K Q M Q D K Y S K I S G I A	A M X 1		
31	P C P S I C G I P R G	P D Q R R P P P P P P V S P L P	F A S L I G A N D	U06948.pep
2				cua.pep
9	E I P R V I C G I T T			cub.pep
	70	80	90	
56	C F I I Z L E D D S Y W D P N D E E S M I N S I P C W Q I V K W Q I R	A M X 1		
57	- - P P S Q P L P I L T P L K K K D H N T N I W I I P V V	F A S L I G A N D	U06948.pep	
12	- - I L A E E A L P I	K K T G G P O G S R R C I	cua.pep	
27				cub.pep
	100	110	120	
86	O I I V R K M I I R T S E E L I S T V O E X Q I Q N I S P L V I R	A M X 1		
25	F E M V I E V A I I V G M G I Z G - M Y Q I L F H I L O K E I A E L R	F A S L I G A N D	U06948.pep	
32	F L S I S E S F I I V A I G I A I T L Y C I I L W F G V I G P Q R E	cua.pep		
21	L I C G I L I I V I			cub.pep
	130	140	150	
116	Z R G F Q R V A K A E I T G I T R G I R S N I L S I S P N S I K N E I	A M X 1		
114	E P T - N G S I K V I S F E K Q I I A N P S I T P S E K X E P R	F A S L I G A N D	U06948.pep	
62	E I S P R D L I S I I S P L A Q A V K S S S K T I P S D	cua.pep		
34	C L P - G V I G I I T P S I A O T A R Q L P K M H L A S T L K	cub.pep		
	160	170	180	
146	A L G I R K I I N I S I	W E S S S I S G H S F L S I N	A M X 1	
143	S V A E I T G N P I H S I R S I P L E W E D O T Y G T A L I - S C	F A S L I G A N D	U06948.pep	
88	S V A E I V V A N P Q I A E G Q - L Q W I L N R I R I A N A L L I A N G	cua.pep		
63	P I A A H I I G D P - S K Q N S I L L W R A N T D R A F I Q D C	cub.pep		
	190	200	210	
167	L R I I R N G R I L V I H E K G I E Y Y I Y S O I T Y F R E I Q E E I	A M X 1		
172	V K Y K K G G I V I N E T G I L Y P V Y S K V V F A G Q S C N	F A S L I G A N D	U06948.pep	
117	V I E L R D N Q I L V V I S E G I Y E I Y S Q V I P K G G G D	cua.pep		
52	F S I L I S I N N S I L V I N T S G I T Y F V Y S O V V E S C K A Y S	cub.pep		
	220	230	240	
157	K E N T K N D K Q M V Q V I Y K Y T S I Y P D P I I M K S I	A M X 1		
202	N Q P - - - - I N H K V Y M R N S K Y P E D L V I M E E	F A S L I G A N D	U06948.pep	
146	- - P S T E V L I T H I - S R I A V S Y Q T K V N I L S A	cua.pep		
122	P K A P S P I Y I A H E S C I P S S Q Y E F K V P I L S S	cub.pep		



**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**